Title (en)
    Aggregate overload power control

Title (de)
    Gesamte Überlastungsleistungssteuerung

Title (fr)
    Régulation de puissance de surcharge totale

Publication
    EP 1071226 A1 20010124 (EN)

Application
    EP 00305859 A 20000711

Priority
    • US 35682599 A 19990719
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Abstract (en)
    A method that changes the power level of a set of forward-link signals, independent of the individual power control of each of the forward-link
    signals in the set, responsive to a comparison of the signal set's power level and a threshold power level (Pth). The threshold power level (Pth)
    is based on the base station's (200) amplifier's (150) maximum threshold power level. The power level of the set is changed by scaling it by a
    scaling factor. The total power level (P n-1-) of the set is obtained during a current frame, and then the scaling factor (g n-) that will be used in the
    subsequent frame is determined. The scaling factor (g n-) is preferably based on the total power level (P n-1-) of the set for the current frame, a
    scaling factor (g n-1-) used during the current frame, and a threshold power level (Pth). The amount by which the total power level exceeds the
    amplifier's maximum continuous power level is the overload amount. The scaling factor is selected so that for each frame the overload amount is
    reduced by a percentage. For example, the overload amount can be reduced by 3% for the current frame, then the percentage may be changed
    for a subsequent frame based on the scaling factor of the current time period and the overload amount of the subsequent time period. The set can
    include all of the signals amplified by the base station's amplifier (150); alternatively, the set can include fewer than all the signals generated by
    the base station. For example, the set can include a plurality of the traffic signals, or a plurality of the traffic signals and one or more of the control
    signals. When the base station includes a plurality of amplifiers, each for amplifying a set of signals, the above process can be performed for each of
    the sets of signals. <IMAGE>

IPC 1-7
    H04B 7/005; H03G 3/30

IPC 8 full level
    H03G 3/30 (2006.01); **H04B 7/005** (2006.01); **H04B 7/26** (2006.01); **H04J 13/00** (2011.01)

CPC (source: EP KR)
    H03G 3/3042 (2013.01 - EP); **H04W 52/22** (2013.01 - KR); **H04W 52/228** (2013.01 - EP); **H04W 52/30** (2013.01 - EP KR);
    H04W 52/52 (2013.01 - EP KR)

Citation (search report)
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    • [A] EP 0805568 A1 19971105 - TRW INC [US]
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